

FIG. 1

```

graph TD
    START([START]) --> 100{More packets  
to be read?}
    100 -- No --> 120[Terminate  
processing]
    100 -- Yes --> 140[Read next data  
item from  
1394 Link]
    140 --> 160{Is  
isochronous  
packet  
header?}
    160 -- No --> 100
    160 -- Yes --> 180[Output isochronous  
data marker  
to SDRAM]
    180 --> 200[Read, process and  
output entire  
isochronous packet  
data payload  
from 1394 link  
to SDRAM]
    200 --> 100

```

Fig. 2

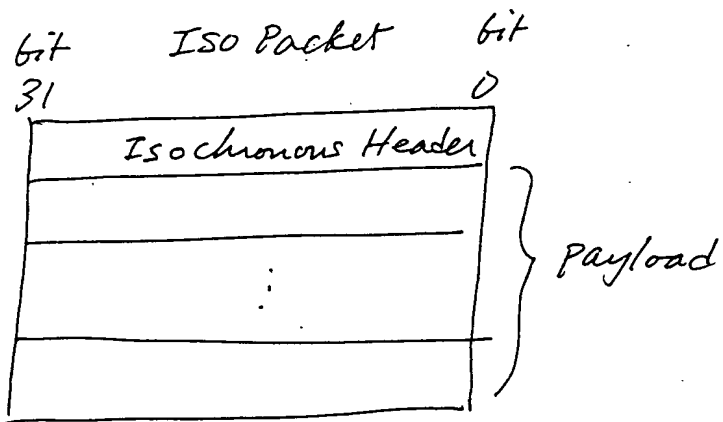


FIG. 3

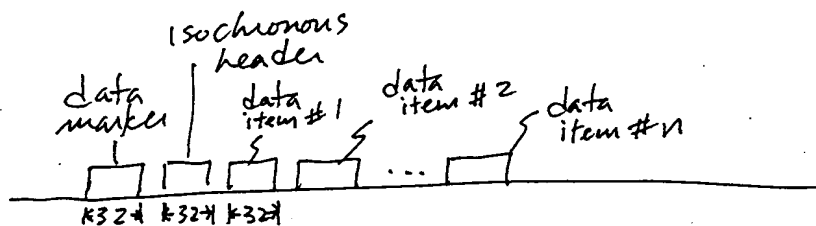


FIG. 4

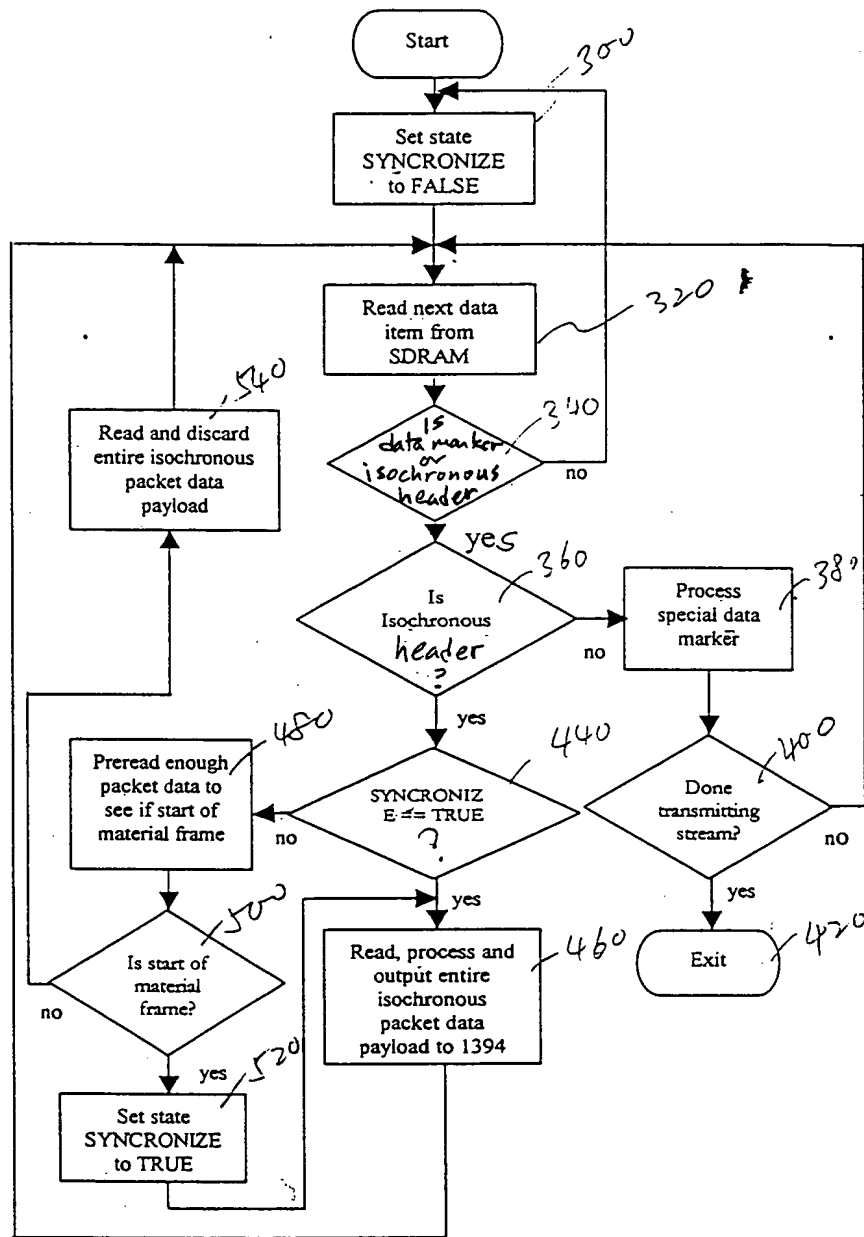
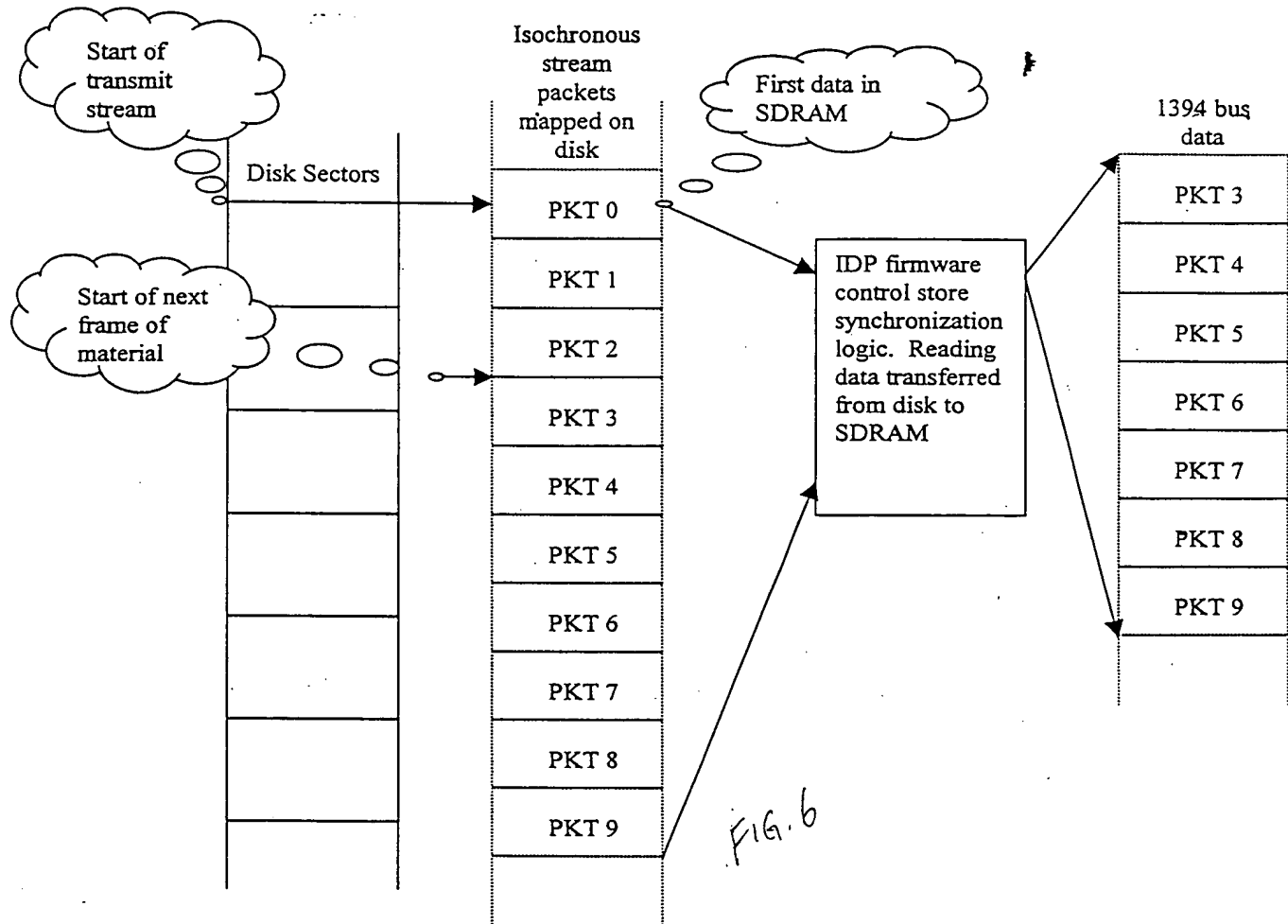


Fig. 5



The diagram illustrates the IDP firmware control store synchronization logic. It shows the flow of data from disk sectors to SDRAM and then to bus data. Key components include:

- Disk Sectors:** A vertical column of sectors on the left. Annotations indicate the "Start of transmit stream" and "Start of next frame of material". A cloud notes "Sectors lost here have partial PKT 6 and PKT a".
- Isochronous stream packets mapped on disk:** A vertical column of packets (PKT 0 to PKT e) in the center. PKT 6 and PKT a are shaded, indicating they are lost or corrupted.
- IDP firmware control store synchronization logic. Reading data transferred from disk to SDRAM:** A central box that receives data from the disk and outputs to the bus data.
- 1394 bus data:** A vertical column of packets (PKT 1 to PKT e) on the right. PKT 1 to PKT 5 are shown, followed by a shaded area for "PKT 6" (labeled "First data in SDRAM"), and then PKT c, PKT d, and PKT e.

Annotations and flow:

- "Start of transmit stream" points to the beginning of the disk sectors.
- "Start of next frame of material" points to the beginning of the next frame of material.
- "Sectors lost here have partial PKT 6 and PKT a" points to the shaded sectors in the disk sectors column.
- "First data in SDRAM" points to the shaded "PKT 6" in the 1394 bus data column.
- "PKT 6 goes out with some garbage data. The IDP firmware then resynchronizes to PKT c the next frame of material." points to the shaded "PKT 6" in the 1394 bus data column.

Fig. 7